ORIGINATION FORM

Date: **11/30/12**
Originator: **Rudy Powell**
Contact Information: **(850) 414-4280**

Specification Title: **Excavation for Structures and Pipe**
Specification Section, Article, or Subarticle Number: **125-8.1, 125-9.2.1, 125-9.2.2**

Why does the existing language need to be changed? **The minimum QC density requirements are different for different pipe types. The proposed changes make the QC density requirements the same for a given minimum cover height.**

Summary of the changes: **To reduce the minimum QC density requirement for a given minimum cover height.**

Are these changes applicable to all Department jobs? **Yes**
If not, what are the restrictions?

Will these changes result in an increase or decrease in project costs? **Decrease**
If yes, what is the estimated change in costs? **Varies**

With who have you discussed these changes? **Brian Blanchard, Tom Byron, David Sadler, Rick Renna, David Horhota, Ben Watson, Larry Ritchie, Juan Castellanos**

What other offices will be impacted by these changes? **Drainage, State Materials Office, Construction**

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? **No**

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? **No**

Contact the State Specifications Office for assistance in completing this form.
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ANANTH PRASAD, P.E.
SECRETARY

M E M O R A N D U M

DATE: December 11, 2012

TO: Specification Review Distribution List

FROM: Trey Tillander, State Specifications Engineer

SUBJECT: Proposed Specification: **1250801 Excavation For Structures and Pipe.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Rudy Powell, of the State Construction Office, because **t**he minimum QC density requirements are different for different pipe types. The proposed changes make the QC density requirements the same for a given minimum cover height.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965TT or trey.tillander@dot.state.fl.us. Comments received after **January 8, 2013,** may not be considered. Your input is encouraged.

TT/cah
Attachment

EXCAVATION FOR STRUCTURES AND PIPE.
(REV 12-3-12)

SUBARTICLE 125-8.1.1 (Pages 179 – 180) is deleted and the following substituted:

125-8.1.1 General: Backfill in the dry whenever normal dewatering equipment and methods can accomplish the needed dewatering. A LOT is defined as one lift of backfill material placement, not to exceed 500 feet in length or a single run of pipe connecting two successive structures, whichever is less. Backfill for structures and ~~plastic or metal~~ pipe compacted in one operation will be considered as *one*~~separate~~ LOT~~s~~ within the cover zone. Backfill around structures compacted separately from the pipe will be considered as separate LOTs. Backfill on each side of the pipe for the first lift will be considered a separate LOT. Backfill on opposite sides of the pipe for the remaining lifts will be considered separate LOTs, unless the same compactive effort is applied. Same compactive effort is defined as the same type of equipment (make and model) making the same number of passes on both sides of the pipe. For multiple phase backfill, a LOT shall not extend beyond the limits of the phase.

When placing backfill within trench box each lift of backfill is considered a LOT. Placement of backfill within trench box limits will be considered a complete operation before trench box is moved for next backfill operation. When the trench box is moved for next backfill operation this will start new LOTs for each lift. Follow the density testing frequency in 125-9.3.1.

SUBARTICLE 125-9.2.1 (Pages 183) is deleted and the following substituted:

125-9.2.1 Density: Obtain a minimum QC density in any LOT of 100% of the Standard Proctor maximum density as determined by AASHTO T99, Method C, or the requirements of 125-8.3.3.1 when applicable. ~~For metal and plastic pipe,~~*When the cover height below the bottom of base under asphalt pavement, below concrete pavement, or below unpaved ground, exceeds 15 inches,* compact the *pipe* backfill ~~in the cover zone~~ to a density of at least 95% of the Standard Proctor maximum density as determined by AASHTO T99, Method C.

For density requirements around drainage structures, obtain a minimum Quality Control (QC) density in any LOT of 100% of the Standard Proctor maximum density as determined by AASHTO T99 for a distance of one pipe diameter but not less than 3 feet from the outside face of the structure.